

PATENT
Serial No. 10/300,620
Amendment in Reply to Office Action mailed on June 5, 2006

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Transceiver A transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer (24) driven phase locked loop-(10-15), characterized in that-wherein said digital synthesizer driven phase locked loop (24,10-15), in said transmitting mode, is in a modulating state, with said digital synthesizer driven phase locked loop-(24,10-15), in said receiving mode, being in an oscillating state and receiving a non-modulation signal including at least one of a dc-voltage and a ground voltage.

2. (Currently amended) Transceiver The transceiver according to claim 1, characterized in that-wherein said digital synthesizer

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

driven phase locked loop (24,10-15) receives, in said modulating state, a modulation signal, with said digital synthesizer driven phase locked loop (24,10-15), in said oscillating state, receiving a non-modulation signal.

3. (Currently amended) Transceiver—The transceiver according to claim 2, characterized in that wherein said transceiver comprises a controller (40)—for generating said modulation signal and for generating control signals, with a switch (32)—being coupled to said controller (40)—and said digital synthesizer driven phase locked loop (24,10-15)—for in response to a first control signal supplying said modulation signal from said controller (40) to said digital synthesizer driven phase locked loop (24,10-15)—and in response to a second control signal supplying said non-modulation signal to said digital synthesizer driven phase locked loop (24,10-15).

4. (Currently amended) Transceiver—The transceiver according to claim 1, characterized in that wherein said digital synthesizer driven phase locked loop (24,10-15) comprises, in said modulating

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

state, a first filtering performance, with said digital synthesizer driven phase locked loop {24,10-15} comprising, in said oscillating state, a second filtering performance different from said first filtering performance.

5. (Currently amended) Transceiver according to claim 4, characterized in that A transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer driven phase locked loop wherein said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state, with said digital synthesizer driven phase locked loop in said receiving mode, being in an oscillating stat

wherein said single digital synthesizer driven phase locked loop {24,10-15} comprises a first filter {12} for said first filtering performance and a second filter {13} for said second filtering performance, with a switch {11} being coupled to said filters, first filter and said second filter {12,13} for in response to a first control signal selecting said first filter {12} and in response to a second control signal selecting said second filter

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

{13}.

6. (Currently amended) Transceiver The transceiver according to claim 1, characterized in that wherein said digital synthesizer driven phase locked loop-(24,10-15), in said modulating state, generates a modulated signal, with said digital synthesizer driven phase locked loop-(24,10-15), in said oscillating state, generating asaid non-modulated signal.

7. (Currently amended) Transceiver The transceiver according to claim 6, characterized in that wherein an output of said digital synthesizer driven phase locked loop-(24,10-15) is coupled via a first switch (5) and a transmitter part (2) and a second switch (3) to an antenna (1) for in response to a first control signal supplying said modulated signal to said antenna (1) for transmitting said modulated signal, with said first switch (5) further being coupled to a first input of a demodulator (6) and with said second switch (3) further being coupled via a receiver part (4) to a second input of said demodulator (6) for in response to a second control signal supplying said non-modulated signal to

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

said demodulator -(6)--for demodulating a radio signal received via said antenna-(1).

8. (Currently amended) A single digital synthesizer driven phase locked loop -(24,10-15)--for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising said single digital synthesizer driven phase locked loop -(24,10-15), characterized in that wherein said single digital synthesizer driven phase locked loop -(24,10-15), in said transmitting mode, is in a modulating state, with said single digital synthesizer driven phase locked loop -(24,10-15), in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

9. (Currently amended) Phase-A phase locked loop -(16-15)--for

PATENT
Serial No. 10/509,620
Amendment in Reply to Office Action mailed on June 5, 2006

use in a single digital synthesizer driven phase locked loop (24,10-15) for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising said digital synthesizer driven phase locked loop (24,10-15), characterized in that wherein said phase locked loop (10-15), in said transmitting mode, is in a modulating state, with said phase locked loop (10-15), in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

10. (Currently amended) Digital A digital synthesizer (24)-for use in a single digital synthesizer driven phase locked loop (24,10-15) for use in a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising said digital synthesizer driven phase locked loop (24,10-15), characterized in that wherein said digital synthesizer

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

(24), in said transmitting mode, is in a modulating state, with said digital synthesizer—(24), in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

11. (Currently amended) System—A system comprising at least one portable unit and at least one network unit for radio communication, with at least one unit comprising at least one transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer driven phase locked loop—(24,10-15), characterized in that wherein said digital synthesizer driven phase locked loop—(24,10-15), in said transmitting mode, is in a modulating state, with said digital synthesizer driven phase locked loop—(24,10-15), in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

12. (Currently amended) Portable A portable unit comprising a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer driven phase locked loop-(24,10-15), characterized in that wherein said digital synthesizer driven phase locked loop-(24,10-15), in said transmitting mode, is in a modulating state, with said digital synthesizer driven phase locked loop-(24,10-15), in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

13. (Currently amended) Network—A network unit comprising at least one transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer driven phase locked loop—(24,10-15)—, characterized in that wherein said digital synthesizer driven phase locked loop—(24,10-15)—, in said transmitting mode, is in a modulating state, with said digital synthesizer driven phase locked loop—(24,10-15)—, in said receiving mode, being in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

14. (Currently amended) Method—A method for transmitting signals in a transmitting mode and for receiving signals in a receiving mode via a single digital synthesizer driven phase locked loop—(24,10-15)—, characterized in that wherein said method

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

comprises a first step of the acts of:

bringing said digital synthesizer driven phase locked loop (24,10-15), in said transmitting mode, in a modulating state, and a second step of

in said receiving mode, bringing said digital synthesizer driven phase locked loop (24,10-15), in said receiving mode, in an oscillating state, and wherein said single digital synthesizer driven phase locked loop comprises a first filter and a second filter, with a switch being coupled to said first filter and said second filter for in response to a first control signal selecting said first filter and in response to a second control signal selecting said second filter.

15. (New) The transceiver of claim 1, further comprising a mode detector configured to detect said transmitting mode and said receiving mode by making a calculation using a first predetermined time slot used for transmission and a second predetermined time slot used for reception.

16. (New) The single digital synthesizer driven phase locked

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

loop of claim 8, wherein said single digital synthesizer driven phase locked loop, in said oscillating state, is configured to receive at least one of a dc-voltage and a ground voltage.

17. (New) The phase locked loop of claim 9, wherein said single digital synthesizer driven phase locked loop, in said oscillating state, is configured to receive at least one of a dc-voltage and a ground voltage.

18. (New) The system of claim 11, wherein said single digital synthesizer driven phase locked loop, in said oscillating state, is configured to receive at least one of a dc-voltage and a ground voltage.

19. (New) The portable unit of claim 12, wherein said single digital synthesizer driven phase locked loop, in said oscillating state, is configured to receive at least one of a dc-voltage and a ground voltage.

20. (New) The network unit of claim 13, wherein said single

PATENT
Serial No. 10/500,620
Amendment in Reply to Office Action mailed on June 5, 2006

digital synthesizer driven phase locked loop, in said oscillating state, is configured to receive at least one of a dc-voltage and a ground voltage.

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